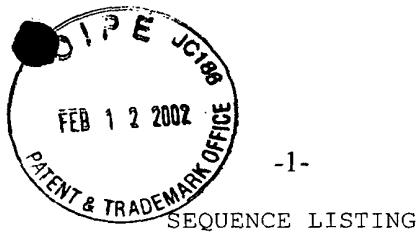


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-1-

SEQUENCE LISTING

<110> Chernajovsky, Yuti
Dreja, Hanna Stina
Adams, Gillian

<120> Latent Fusion Protein

<130> 0623.1000000

<140> US 09/756,283

<141> 2001-01-09

<160> 100

<170> PatentIn version 3.0

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<220>
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<211> 6
<212> PRT
<213> Artificial

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Pro Leu Gly Leu Trp Ala
1 5

<210> 16
<211> 8
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<220>
<223> Flexible portion

<400> 16
Gly Gly Gly Gly Ser Ala Ala Ala
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<212> PRT
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Pro Leu Gly Leu
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Pro Leu Gly Ile
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tgg cta ctg gtg ctg acg cct ggc ccg ccg gcc gcg gga cta tcc acc
Trp Leu Leu Val Leu Thr Pro Gly Pro Pro Ala Ala Gly Leu Ser Thr
20 25 30

tgc aag act atc gac atg gag ctg gtg aag cggt aag cgc atc gag gcc
Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg Ile Glu Ala
35 40 45

48

96

144

| | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|
| atc | cgc | ggc | cag | atc | ctg | tcc | aag | ctg | cgg | ctc | gcc | agc | ccc | ccg | agc | | 192 |
| Ile | Arg | Gly | Gln | Ile | Leu | Ser | Lys | Leu | Arg | Leu | Ala | Ser | Pro | Pro | Pro | Ser | |
| 50 | | | | 55 | | | | 60 | | | | | | | | | |
| cag | ggg | gag | gtg | ccg | ccc | ggc | ccg | ctg | ccc | gag | gcc | gtg | ctc | gcc | ctg | | 240 |
| Gln | Gly | Glu | Val | Pro | Pro | Gly | Pro | Leu | Pro | Glu | Ala | Val | Leu | Ala | Leu | | |
| 65 | | | | 70 | | | | 75 | | | | | | | | | |
| tac | aac | agc | acc | cgc | gac | cg | gtg | gcc | ggg | gag | agt | gca | gaa | ccg | gag | | 288 |
| Tyr | Asn | Ser | Thr | Arg | Asp | Arg | Val | Ala | Gly | Glu | Ser | Ala | Glu | Pro | Glu | | |
| 85 | | | | | | | 90 | | | | | | | 95 | | | |
| ccc | gag | cct | gag | gcc | gac | tac | tac | gcc | aag | gag | gtc | acc | cgc | gtg | cta | | 336 |
| Pro | Glu | Pro | Glu | Ala | Asp | Tyr | Tyr | Ala | Lys | Glu | Val | Thr | Arg | Val | Leu | | |
| | | | | 100 | | | | 105 | | | | | 110 | | | | |
| atg | gtg | gaa | acc | cac | aac | gaa | atc | tat | gac | aag | ttc | aag | cag | agt | aca | | 384 |
| Met | Val | Glu | Thr | His | Asn | Glu | Ile | Tyr | Asp | Lys | Phe | Lys | Gln | Ser | Thr | | |
| 115 | | | | | | | 120 | | | | | 125 | | | | | |
| cac | agc | ata | tat | atg | ttc | ttc | aac | aca | tca | gag | ctc | cga | gaa | gcg | gta | | 432 |
| His | Ser | Ile | Tyr | Met | Phe | Phe | Asn | Thr | Ser | Glu | Leu | Arg | Glu | Ala | Val | | |
| 130 | | | | | | 135 | | | | | 140 | | | | | | |
| cct | gaa | ccc | gtg | ttg | ctc | tcc | cg | gca | gag | ctg | cgt | ctg | ctg | agg | agg | | 480 |
| Pro | Glu | Pro | Val | Leu | Leu | Ser | Arg | Ala | Glu | Leu | Arg | Leu | Leu | Arg | Arg | | |
| 145 | | | | | | 150 | | | | | 155 | | | | 160 | | |
| ctc | aag | tta | aaa | gtg | gag | cag | cac | gtg | gag | ctg | tac | cag | aaa | tac | agc | | 528 |
| Leu | Lys | Leu | Lys | Val | Gl | Gln | His | Val | Gl | Leu | Tyr | Gln | Lys | Tyr | Ser | | |
| | | | | 165 | | | | | 170 | | | | | 175 | | | |
| aac | aat | tcc | tgg | cga | tac | ctc | agc | aac | cg | ctg | ctg | gca | ccc | agc | gac | | 576 |
| Asn | Asn | Ser | Trp | Arg | Tyr | Leu | Ser | Asn | Arg | Leu | Leu | Ala | Pro | Ser | Asp | | |
| | | | | 180 | | | | 185 | | | | | 190 | | | | |
| tcg | cca | gag | tgg | tta | tct | ttt | gat | gtc | acc | gga | gtt | gtg | cg | cag | tgg | | 624 |
| Ser | Pro | Glu | Trp | Leu | Ser | Phe | Asp | Val | Thr | Gly | Val | Val | Arg | Gln | Trp | | |
| | | | | 195 | | | 200 | | | | | 205 | | | | | |
| ttg | agc | cgt | gga | ggg | gaa | att | gag | ggc | ttt | cgc | ctt | agc | gcc | cac | tgc | | 672 |
| Leu | Ser | Arg | Gly | Gly | Gl | Ile | Gl | Gly | Phe | Arg | Leu | Ser | Ala | His | Cys | | |
| 210 | | | | | | 215 | | | | | 220 | | | | | | |
| tcc | tgt | gac | agc | agg | gat | aac | aca | ctg | caa | gtg | gac | atc | aac | ggg | ttc | | 720 |
| Ser | Cys | Asp | Ser | Arg | Asp | Asn | Thr | Leu | Gln | Val | Asp | Ile | Asn | Gly | Phe | | |
| 225 | | | | | | 230 | | | | | 235 | | | | 240 | | |
| act | acc | ggc | cgc | cga | ggt | gac | ctg | gcc | acc | att | cat | ggc | atg | aac | cg | | 768 |
| Thr | Thr | Gly | Arg | Arg | Gly | Asp | Leu | Ala | Thr | Ile | His | Gly | Met | Asn | Arg | | |
| | | | | 245 | | | | | 250 | | | | | 255 | | | |
| cct | ttc | ctg | ctt | ctc | atg | gcc | acc | ccg | ctg | gag | agg | gcc | cag | cat | ctg | | 816 |
| Pro | Phe | Leu | Leu | Leu | Met | Ala | Thr | Pro | Leu | Glu | Arg | Ala | Gln | His | Leu | | |
| | | | | 260 | | | | 265 | | | | | 270 | | | | |
| caa | agc | gaa | ttc | ggg | gga | ggc | gga | tcc | ccg | ctc | ggg | ctt | tgg | gcg | gga | | 864 |
| Gln | Ser | Glu | Phe | Gly | Gly | Gly | Gly | Ser | Pro | Leu | Gly | Leu | Trp | Ala | Gly | | |
| | | | | 275 | | | | 280 | | | | | 285 | | | | |
| ggg | ggc | tca | gcg | gcc | gca | atc | aac | tat | aag | cag | ctc | cag | ctc | caa | gaa | | 912 |
| Gly | Gly | Ser | Ala | Ala | Ala | Ile | Asn | Tyr | Lys | Gln | Leu | Gln | Leu | Gln | Glu | | |
| | | | | 290 | | | | 295 | | | | | 300 | | | | |
| agg | acg | aac | att | cg | aaa | tgt | cag | gag | ctc | ctg | gag | cag | ctg | aat | gga | | 960 |
| Arg | Thr | Asn | Ile | Arg | Lys | Cys | Gln | Glu | Leu | Leu | Glu | Gln | Leu | Asn | Gly | | |
| | | | | 305 | | | | 310 | | | | | 315 | | 320 | | |
| aag | atc | aac | ctc | acc | tac | agg | g | gac | t | aag | atc | cct | atg | gag | atg | | 1008 |
| Lys | Ile | Asn | Leu | Thr | Tyr | Arg | Ala | Asp | Phe | Lys | Ile | Pro | Met | Glu | Met | | |
| | | | | 325 | | | | 330 | | | | | 335 | | | | |
| acg | gag | aag | atg | cag | aag | agt | tac | act | gcc | ttt | gcc | atc | caa | gag | atg | | 1056 |
| Thr | Glu | Lys | Met | Gln | Lys | Ser | Tyr | Thr | Ala | Phe | Ala | Ile | Gln | Glu | Met | | |
| | | | | 340 | | | | 345 | | | | | 350 | | | | |
| ctc | cag | aat | gtc | ttt | ctt | gtc | ttc | aga | aac | aat | ttc | tcc | agc | act | gg | | 1104 |
| Leu | Gln | Asn | Val | Phe | Leu | Val | Phe | Arg | Asn | Asn | Phe | Ser | Ser | Thr | Gly | | |

| | 355 | 360 | 365 | |
|---|-----|-----|-----|------|
| tgg aat gag act att gtt gta cgt ctc ctg gat gaa ctc cac cag cag | | | | 1152 |
| Trp Asn Glu Thr Ile Val Val Arg Leu Leu Asp Glu Leu His Gln Gln | 370 | 375 | 380 | |
| aca gtg ttt ctg aag aca gta cta gag gaa aag caa gag gaa aga ttg | | | | 1200 |
| Thr Val Phe Leu Lys Thr Val Leu Glu Glu Lys Gln Glu Glu Arg Leu | 385 | 390 | 395 | 400 |
| acg tgg gag atg tcc tca act gct ctc cac ttg aag agc tat tac tgg | | | | 1248 |
| Thr Trp Glu Met Ser Ser Thr Ala Leu His Leu Lys Ser Tyr Tyr Trp | 405 | 410 | 415 | |
| agg gtg caa agg tac ctt aaa ctc atg aag tac aac agc tac gcc tgg | | | | 1296 |
| Arg Val Gln Arg Tyr Leu Lys Leu Met Lys Tyr Asn Ser Tyr Ala Trp | 420 | 425 | 430 | |
| atg gtg gtc cga gca gag atc ttc agg aac ttt ctc atc att cga aga | | | | 1344 |
| Met Val Val Arg Ala Glu Ile Phe Arg Asn Phe Leu Ile Ile Arg Arg | 435 | 440 | 445 | |
| ctt acc aga aac ttccaa aac tga tctagacc | | | | 1376 |
| Leu Thr Arg Asn Phe Gln Asn | 450 | 455 | | |

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<211> 455

<212> PRT

<213> Artificial

<220>

<223> LAP-mIFN β construct

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| Met Pro Pro Ser Gly Leu Arg Leu Leu Pro Leu Leu Leu Pro Leu Leu | | | |
| 1 | 5 | 10 | 15 |

| | | |
|---|----|----|
| Trp Leu Leu Val Leu Thr Pro Gly Pro Pro Ala Ala Gly Leu Ser Thr | | |
| 20 | 25 | 30 |

| | | |
|---|----|----|
| Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg Ile Glu Ala | | |
| 35 | 40 | 45 |

| | | |
|---|----|----|
| Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser | | |
| 50 | 55 | 60 |

| | | | |
|---|----|----|----|
| Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu | | | |
| 65 | 70 | 75 | 80 |

| | | |
|---|----|----|
| Tyr Asn Ser Thr Arg Asp Arg Val Ala Gly Glu Ser Ala Glu Pro Glu | | |
| 85 | 90 | 95 |

| | | |
|---|-----|-----|
| Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr Arg Val Leu | | |
| 100 | 105 | 110 |

| | | |
|---|-----|-----|
| Met Val Glu Thr His Asn Glu Ile Tyr Asp Lys Phe Lys Gln Ser Thr | | |
| 115 | 120 | 125 |

| | | |
|---|-----|-----|
| His Ser Ile Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg Glu Ala Val | | |
| 130 | 135 | 140 |

Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu Leu Arg Arg
145 150 155 160

Leu Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys Tyr Ser
165 170 175

Asn Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro Ser Asp
180 185 190

Ser Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg Gln Trp
195 200 205

Leu Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala His Cys
210 215 220

Ser Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn Gly Phe
225 230 235 240

Thr Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met Asn Arg
245 250 255

Pro Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln His Leu
260 265 270

Gln Ser Glu Phe Gly Gly Gly Ser Pro Leu Gly Leu Trp Ala Gly
275 280 285

Gly Gly Ser Ala Ala Ala Ile Asn Tyr Lys Gln Leu Gln Leu Gln Glu
290 295 300

Arg Thr Asn Ile Arg Lys Cys Gln Glu Leu Leu Glu Gln Leu Asn Gly
305 310 315 320

Lys Ile Asn Leu Thr Tyr Arg Ala Asp Phe Lys Ile Pro Met Glu Met
325 330 335

Thr Glu Lys Met Gln Lys Ser Tyr Thr Ala Phe Ala Ile Gln Glu Met
340 345 350

Leu Gln Asn Val Phe Leu Val Phe Arg Asn Asn Phe Ser Ser Thr Gly
355 360 365

Trp Asn Glu Thr Ile Val Val Arg Leu Leu Asp Glu Leu His Gln Gln
370 375 380

Thr Val Phe Leu Lys Thr Val Leu Glu Glu Lys Gln Glu Glu Arg Leu
385 390 395 400

Thr Trp Glu Met Ser Ser Thr Ala Leu His Leu Lys Ser Tyr Tyr Trp
405 410 415

Arg Val Gln Arg Tyr Leu Lys Leu Met Lys Tyr Asn Ser Tyr Ala Trp
420 425 430

Met Val Val Arg Ala Glu Ile Phe Arg Asn Phe Leu Ile Ile Arg Arg
435 440 445

Leu Thr Arg Asn Phe Gln Asn

| | |
|---|------|
| atc gac atg gag ctg gtg aag cgg aag cgc atc gag gcc atc cgc ggc Ile Asp Met Glu Leu Val Lys Arg Lys Arg Ile Glu Ala Ile Arg Gly 210 215 220 | 672 |
| cag atc ctg tcc aag ctg cgg ctc gcc agc ccc ccg agc cag ggg gag Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser Gln Gly Glu 225 230 235 240 | 720 |
| gtg ccg ccc ggc ccg ctg ccc gag gcc gtg ctc gcc ctg tac aac agc Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu Tyr Asn Ser 245 250 255 | 768 |
| acc cgc gac cggt gcc ggg gag agt gca gaa ccg gag ccc gag cct Thr Arg Asp Arg Val Ala Gly Glu Ser Ala Glu Pro Glu Pro Glu Pro 260 265 270 | 816 |
| gag gcc gac tac tac gcc aag gag gtc acc cgc gtg cta atg gtg gaa Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr Arg Val Leu Met Val Glu 275 280 285 | 864 |
| acc cac aac gaa atc tat gac aag ttc aag cag agt aca cac agc ata Thr His Asn Glu Ile Tyr Asp Lys Phe Lys Gln Ser Thr His Ser Ile 290 295 300 | 912 |
| tat atg ttc ttc aac aca tca gag ctc cga gaa gcg gta cct gaa ccc Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg Glu Ala Val Pro Glu Pro 305 310 315 320 | 960 |
| gtg ttg ctc tcc cgg gca gag ctg cgt ctg ctg agg agg ctc aag tta Val Leu Leu Ser Arg Ala Glu Leu Arg Leu Leu Arg Arg Leu Lys Leu 325 330 335 | 1008 |
| aaa gtg gag cag cac gtg gag ctg tac cag aaa tac agc aac aat tcc Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys Tyr Ser Asn Asn Ser 340 345 350 | 1056 |
| tgg cga tac ctc agc aac cgg ctg ctg gca ccc agc gac tcg cca gag Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro Ser Asp Ser Pro Glu 355 360 365 | 1104 |
| tgg tta tct ttt gat gtc acc gga gtt gtg cgg cag tgg ttg agc cgt Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg Gln Trp Leu Ser Arg 370 375 380 | 1152 |
| gga ggg gaa att gag ggc ttt cgc ctt agc gcc cac tgc tcc tgt gac Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala His Cys Ser Cys Asp 385 390 395 400 | 1200 |
| agc agg gat aac aca ctg caa gtg gac atc aac ggg ttc act acc ggc Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn Gly Phe Thr Thr Gly 405 410 415 | 1248 |
| cgc cga ggt gac ctg gcc acc att cat ggc atg aac cgg cct ttc ctg Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met Asn Arg Pro Phe Leu 420 425 430 | 1296 |
| ctt ctc atg gcc acc ccg ctg gag agg gcc cag cat ctg caa agc tga Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln His Leu Gln Ser 435 440 445 | 1344 |
| tcttagacc | 1352 |
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| <400> 22 | |

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Thr Thr Ala Leu Ser Ile Asn Tyr Lys Gln Leu Gln Leu Gln Glu Arg
20 25 30

Thr Asn Ile Arg Lys Cys Gln Glu Leu Leu Glu Gln Leu Asn Gly Lys
35 40 45

Ile Asn Leu Thr Tyr Arg Ala Asp Phe Lys Ile Pro Met Glu Met Thr
50 55 60

Glu Lys Met Gln Lys Ser Tyr Thr Ala Phe Ala Ile Gln Glu Met Leu
65 70 75 80

Gln Asn Val Phe Leu Val Phe Arg Asn Asn Phe Ser Ser Thr Gly Trp
85 90 95

Asn Glu Thr Ile Val Val Arg Leu Leu Asp Glu Leu His Gln Gln Thr
100 105 110

Val Phe Leu Lys Thr Val Leu Glu Glu Lys Gln Glu Glu Arg Leu Thr
115 120 125

Trp Glu Met Ser Ser Thr Ala Leu His Leu Lys Ser Tyr Tyr Trp Arg
130 135 140

Val Gln Arg Tyr Leu Lys Leu Met Lys Tyr Asn Ser Tyr Ala Trp Met
145 150 155 160

Val Val Arg Ala Glu Ile Phe Arg Asn Phe Leu Ile Ile Arg Arg Leu
165 170 175

Thr Arg Asn Phe Gln Asn Glu Phe Gly Gly Gly Ser Pro Leu Gly
180 185 190

Leu Trp Ala Gly Gly Ser Ala Ala Ala Leu Ser Thr Cys Lys Thr
195 200 205

Ile Asp Met Glu Leu Val Lys Arg Lys Arg Ile Glu Ala Ile Arg Gly
210 215 220

Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser Gln Gly Glu
225 230 235 240

Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu Tyr Asn Ser
245 250 255

Thr Arg Asp Arg Val Ala Gly Glu Ser Ala Glu Pro Glu Pro Glu Pro
260 265 270

Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr Arg Val Leu Met Val Glu
275 280 285

Thr His Asn Glu Ile Tyr Asp Lys Phe Lys Gln Ser Thr His Ser Ile
290 295 300

Tyr Met Phe Phe Asn Thr Ser Glu Leu Arg Glu Ala Val Pro Glu Pro
305 310 315 320

Val Leu Leu Ser Arg Ala Glu Leu Arg Leu Leu Arg Arg Leu Lys Leu
325 330 335

Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys Tyr Ser Asn Asn Ser
340 345 350

Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro Ser Asp Ser Pro Glu
355 360 365

Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg Gln Trp Leu Ser Arg
370 375 380

Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala His Cys Ser Cys Asp
385 390 395 400

Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn Gly Phe Thr Thr Gly
405 410 415

Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met Asn Arg Pro Phe Leu
420 425 430

Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln His Leu Gln Ser
435 440 445

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<211> 390

<212> PRT

<213> Homo sapiens

<400> 23

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Cys Lys Thr Ile Asp Met Glu Leu Val Lys Arg Lys Arg Ile Glu Ala
35 40 45

Ile Arg Gly Gln Ile Leu Ser Lys Leu Arg Leu Ala Ser Pro Pro Ser
50 55 60

Gln Gly Glu Val Pro Pro Gly Pro Leu Pro Glu Ala Val Leu Ala Leu
65 70 75 80

Tyr Asn Ser Thr Arg Asp Arg Val Ala Gly Glu Ser Ala Glu Pro Glu
85 90 95

Pro Glu Pro Glu Ala Asp Tyr Tyr Ala Lys Glu Val Thr Arg Val Leu
100 105 110

Met Val Glu Thr His His Glu Ile Tyr Asp Lys Phe Lys Gln Ser Thr
115 120 125

His Ser Thr Tyr Met Phe Phe Asn Ile Ser Glu Leu Arg Glu Ala Val
130 135 140

Pro Glu Pro Val Leu Leu Ser Arg Ala Glu Leu Arg Leu Leu Arg Leu
145 150 155 160

Lys Leu Lys Val Glu Gln His Val Glu Leu Tyr Gln Lys Tyr Ser Asn
165 170 175

Asn Ser Trp Arg Tyr Leu Ser Asn Arg Leu Leu Ala Pro Ser Asp Ser
180 185 190
Pro Glu Trp Leu Ser Phe Asp Val Thr Gly Val Val Arg Gln Trp Leu
195 200 205
Ser Arg Gly Gly Glu Ile Glu Gly Phe Arg Leu Ser Ala His Cys Ser
210 215 220
Cys Asp Ser Arg Asp Asn Thr Leu Gln Val Asp Ile Asn Gly Phe Thr
225 230 235 240
Thr Gly Arg Arg Gly Asp Leu Ala Thr Ile His Gly Met Asn Arg Pro
245 250 255
Phe Leu Leu Leu Met Ala Thr Pro Leu Glu Arg Ala Gln His Leu Gln
260 265 270
Ser Ser Arg His Arg Arg Ala Leu Asp Thr Asn Tyr Cys Phe Ser Ser
275 280 285
Thr Glu Lys Asn Cys Cys Val Arg Gln Leu Tyr Ile Asp Phe Arg Lys
290 295 300
Asp Leu Gly Trp Lys Trp Ile His Glu Pro Lys Gly Tyr His Ala Asn
305 310 315 320
Phe Cys Leu Gly Pro Cys Pro Tyr Ile Trp Ser Leu Asp Thr Gln Tyr
325 330 335
Ser Lys Val Leu Ala Leu Tyr Asn Gln His Asn Pro Gly Ala Ser Ala
340 345 350
Ala Pro Cys Cys Val Pro Gln Ala Leu Glu Pro Leu Pro Ile Val Tyr
355 360 365
Tyr Val Gly Arg Lys Pro Lys Val Glu Gln Leu Ser Asn Met Ile Val
370 375 380
Arg Ser Cys Lys Cys Ser
385 390
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<400> 24

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20 25 30
Met Arg Lys Arg Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys Leu
35 40 45
Lys Leu Thr Ser Pro Pro Glu Asp Tyr Pro Glu Pro Glu Val Pro
50 55 60
Pro Glu Val Ile Ser Ile Tyr Asn Ser Thr Arg Asp Leu Leu Gln Glu
65 70 75 80
Lys Ala Ser Arg Arg Ala Ala Ala Cys Glu Arg Glu Arg Ser Asp Glu
85 90 95
Glu Tyr Tyr Ala Lys Glu Val Tyr Lys Ile Asp Met Pro Pro Phe Phe
100 105 110
Pro Ser Glu Asn Ala Ile Pro Pro Thr Phe Tyr Arg Pro Tyr Phe Arg
115 120 125

Ile Val Arg Phe Asp Val Ser Ala Met Glu Lys Asn Ala Ser Asn Leu
130 135 140

Val Lys Ala Glu Phe Arg Val Phe Arg Leu Gln Asn Pro Lys Ala Arg
145 150 155 160

Val Pro Glu Gln Arg Ile Glu Leu Tyr Gln Ile Leu Lys Ser Lys Asp
165 170 175 180

Leu Ile Ser Pro Thr Gln Arg Tyr Ile Asp Ser Lys Val Val Lys Thr
180 185 190 195

Arg Ala Glu Gly Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val His
195 200 205

Glu Trp Leu His His Lys Asp Arg Asn Leu Gly Phe Lys Ile Ser Leu
210 215 220

His Cys Pro Cys Cys Thr Phe Val Pro Ser Asn Asn Tyr Ile Ile Pro
225 230 235 240

Asn Lys Ser Glu Glu Leu Glu Ala Arg Phe Ala Gly Ile Asp Gly Ile
245 250 255

Ser Thr Tyr Thr Ser Gly Asp Gln Lys Thr Ile Lys Ser Thr Arg Lys
260 265 270

Lys Asn Ser Gly Lys Thr Pro His Leu Leu Leu Met Leu Leu Pro Ser
275 280 285

Tyr Arg Leu Glu Ser Gln Gln Thr Asn Arg Arg Lys Lys Arg Ala Leu
290 295 300

Asp Ala Ala Tyr Cys Phe Arg Asn Val Gln Asp Asn Cys Cys Leu Arg
305 310 315 320

Pro Leu Tyr Ile Asp Phe Lys Arg Asp Leu Gly Trp Lys Trp Ile His
325 330 335

Glu Pro Lys Gly Tyr Asn Ala Asn Phe Cys Ala Gly Ala Cys Pro Tyr
340 345 350

Leu Trp Ser Ser Asp Thr Gln His Ser Arg Val Leu Ser Leu Tyr Asn
355 360 365

Thr Glu Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Ser Gln Asp
370 375 380

Leu Glu Pro Leu Thr Ile Leu Tyr Tyr Ile Gly Lys Ile Pro Lys Ile
385 390 395 400

Glu Gln Leu Ser Asn Met Ile Val Lys Ser Cys Lys Cys Ser
405 410

<210> 25

<211> 412

<212> PRT

<213> Homo sapiens

<400> 25

Met Lys Met His Leu Gln Arg Ala Leu Val Val Leu Ala Leu Leu His
1 5 10 15

Phe Ala Thr Val Ser Leu Ser Leu Ser Thr Cys Thr Thr Leu Asp Phe
20 25 30

Gly His Ile Lys Lys Lys Arg Val Glu Ala Ile Arg Gly Gln Ile Leu
35 40 45

Ser Lys Leu Arg Leu Thr Ser Pro Pro Glu Pro Thr Val Met Thr His
50 55 60

Val Pro Tyr Gln Val Leu Ala Leu Tyr Asn Ser Thr Arg Glu Leu Leu
65 70 75 80

Glu Glu His Gly Glu Arg Lys Glu Glu Gly Cys Thr Gln Glu Asn Thr
85 90 95

Glu Ser Glu Tyr Tyr Ala Lys Glu Ile His Lys Phe Asp Met Ile Gln
100 105 110

Gly Leu Ala Glu His Asn Glu Leu Ala Val Cys Pro Lys Gly Ile Thr
115 120 125

Ser Lys Val Phe Arg Phe Asn Val Ser Ser Val Glu Lys Asn Arg Thr
130 135 140

Asn Leu Phe Arg Ala Glu Phe Arg Val Leu Arg Val Pro Asn Pro Ser
145 150 155 160

Ser Lys Arg Asn Glu Gln Arg Ile Glu Leu Phe Gln Ile Leu Arg Pro
165 170 175

Asp Glu His Ile Ala Lys Gln Arg Tyr Ile Gly Gly Lys Asn Leu Pro
180 185 190

Thr Arg Gly Thr Ala Glu Trp Leu Ser Phe Asp Val Thr Asp Thr Val
195 200 205

Arg Glu Trp Leu Leu Arg Arg Glu Ser Asn Leu Gly Leu Glu Ile Ser
210 215 220

Ile His Cys Pro Cys His Thr Phe Gln Pro Asn Gly Asp Ile Leu Glu
225 230 235 240

Asn Ile His Glu Val Met Glu Ile Lys Phe Lys Gly Val Asp Asn Glu
245 250 255

Asp Asp His Gly Arg Gly Asp Leu Gly Arg Leu Lys Lys Gln Lys Asp
260 265 270

Asn Asn Asn Pro His Leu Ile Leu Met Met Ile Pro Pro His Arg Leu
275 280 285

Asp Asn Pro Gly Gln Gly Gln Arg Lys Lys Arg Ala Leu Asp Ile
290 295 300

Asn Tyr Cys Phe Arg Asn Leu Glu Glu Asn Cys Cys Val Arg Pro Leu
305 310 315 320

Tyr Ile Asp Phe Arg Gln Asp Leu Gly Trp Lys Trp Val His Glu Pro
325 330 335

Lys Gly Tyr Tyr Ala Asn Phe Cys Ser Gly Pro Cys Pro Tyr Leu Arg
340 345 350

Ser Ala Asp Thr Thr His Ser Thr Val Leu Gly Leu Tyr Asn Thr Leu
355 360 365

Asn Pro Glu Ala Ser Ala Ser Pro Cys Cys Val Pro Gln Asp Leu Glu
370 375 380

Pro Leu Thr Ile Leu Tyr Tyr Val Gly Arg Thr Pro Lys Val Glu Gln
385 390 395 400

Leu Ser Asn Met Val Val Lys Ser Cys Lys Cys Ser
405 410

<210> 26

<211> 304

<212> PRT

<213> Gallus domesticus

<400> 26

Met Asp Pro Met Ser Ile Gly Pro Lys Ser Cys Gly Gly Ser Pro Trp
1 5 10 15

Arg Pro Pro Gly Thr Ala Pro Trp Ser Ile Gly Ser Arg Arg Ala Thr
20 25 30

Ala Ser Ser Ser Cys Ser Thr Ser Ser Arg Val Arg Ala Glu Val Gly
35 40 45

Gly Arg Ala Leu Leu His Arg Ala Glu Leu Arg Met Leu Arg Gln Lys
50 55 60

Ala Ala Ala Asp Ser Ala Gly Thr Glu Gln Arg Leu Glu Leu Tyr Gln
65 70 75 80

Gly Tyr Gly Asn Ala Ser Trp Arg Tyr Leu His Gly Arg Ser Val Arg
85 90 95

Ala Thr Ala Asp Asp Glu Trp Leu Ser Phe Asp Val Thr Asp Ala Val
100 105 110

His Gln Trp Leu Ser Gly Ser Glu Leu Leu Gly Val Phe Lys Leu Ser
115 120 125

Val His Cys Pro Cys Glu Met Gly Pro Gly His Ala Asp Glu Met Arg
130 135 140

Ile Ser Ile Glu Gly Phe Glu Gln Gln Arg Gly Asp Met Gln Ser Ile
145 150 155 160

Ala Lys Lys His Arg Arg Val Pro Tyr Val Leu Ala Met Ala Leu Pro
165 170 175

Ala Glu Arg Ala Asn Glu Leu His Ser Ala Arg Arg Arg Asp Leu
180 185 190

Asp Thr Asp Tyr Cys Phe Gly Pro Gly Thr Asp Glu Lys Asn Cys Cys
195 200 205

Val Arg Pro Leu Tyr Ile Asp Phe Arg Lys Asp Leu Gln Trp Lys Trp
210 215 220

Ile His Glu Pro Lys Gly Tyr Met Ala Asn Phe Cys Met Gly Pro Cys
225 230 235 240

Pro Tyr Ile Trp Ser Ala Asp Thr Gln Tyr Ile Lys Val Leu Ala Leu
245 250 255

Tyr Asn Gln Asn Asn Pro Gly Ala Ser Ala Ala Pro Cys Cys Val Pro
260 265 270

Gln Ile Leu Asp Pro Leu Pro Ile Ile Tyr Tyr Val Gly Arg Asn Val
275 280 285

Arg Val Glu Gln Leu Ser Asn Met Val Val Arg Ala Cys Lys Cys Ser
290 295 300

<210> 27

<211> 383

<212> PRT

<213> Rana sp.

<400> 27

Met Glu Val Leu Trp Met Leu Leu Val Leu Leu Val Leu His Leu Ser
1 5 10 15

Ser Leu Ala Met Ser Leu Ser Thr Cys Lys Ala Val Asp Met Glu Glu
20 25 30

Val Arg Lys Arg Arg Ile Glu Ala Ile Arg Gly Gln Ile Leu Ser Lys
35 40 45

Leu Lys Leu Asp Lys Ile Pro Asp Val Asp Ser Glu Lys Met Thr Val
50 55 60

Pro Ser Glu Ala Ile Phe Leu Tyr Asn Ser Thr Leu Glu Val Ile Arg
65 70 75 80

Glu Lys Ala Thr Arg Glu Glu Glu His Val Gly His Asp Gln Asn
85 90 95

Ile Gln Asp Tyr Tyr Ala Lys Gln Val Tyr Arg Phe Glu Ser Ile Thr
100 105 110

Glu Leu Glu Asp His Glu Phe Lys Phe Lys Phe Asn Ala Ser Asn Val
115 120 125

Arg Glu Asn Val Gly Met Asn Ser Leu Leu His His Ala Glu Leu Arg
130 135 140

Met Tyr Lys Lys Gln Thr Asp Lys Asn Met Asp Gln Arg Met Glu Leu
145 150 155 160

Phe Trp Lys Tyr Gln Glu Asn Gly Thr Thr His Ser Arg Tyr Leu Glu
165 170 175

Ser Lys Tyr Ile Thr Pro Val Thr Asp Asp Glu Trp Met Ser Phe Asp
180 185 190

Val Thr Lys Thr Val Asn Glu Trp Leu Lys Arg Ala Glu Glu Asn Glu
195 200 205

Gln Phe Gly Leu Gln Pro Ala Cys Lys Cys Pro Thr Pro Gln Ala Lys
210 215 220

Asp Ile Asp Ile Glu Gly Phe Pro Ala Leu Arg Gly Asp Leu Ala Ser
225 230 235 240

Leu Ser Ser Lys Glu Asn Thr Lys Pro Tyr Leu Met Ile Thr Ser His
245 250 255

Pro Ala Glu Arg Ile Asp Thr Val Thr Ser Ser Arg Lys Lys Arg Gly
260 265 270

Val Gly Gln Glu Tyr Cys Phe Gly Asn Asn Gly Pro Asn Cys Cys Val
275 280 285

Lys Pro Leu Tyr Ile Asn Phe Arg Lys Asp Leu Gly Trp Lys Trp Ile
290 295 300

His Glu Pro Lys Gly Tyr Glu Ala Asn Tyr Cys Leu Gly Asn Cys Pro
305 310 315 320

Tyr Ile Trp Ser Met Asp Thr Gln Tyr Ser Lys Val Leu Ser Leu Tyr
325 330 335

Asn Gln Asn Asn Pro Gly Ala Ser Ile Ser Pro Cys Cys Val Pro Asp
340 345 350

Val Leu Glu Pro Leu Pro Ile Ile Tyr Tyr Val Gly Arg Ile Ala Lys
355 360 365

Val Glu Gln Leu Ser Asn Met Val Val Arg Ser Cys Asn Cys Ser
370 375 380

<210> 28
<211> 8
<212> PRT
<213> Homo sapiens

<400> 28

Ala Pro Gln Gly Ile Ala Gly Gln
1 5

<210> 29
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<400> 29
Gly Pro Gln Gly Leu Leu Gly Ala
1 5
<210> 30
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<400> 30
Gly Pro Gln Gly Leu Ala Gly Gln
1 5
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<400> 31
Gly Pro Leu Gly Ile Ala Gly Ile
1 5
<210> 32
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<400> 32
Gly Pro Glu Gly Leu Arg Val Gly
1 5
<210> 33
<211> 8
<212> PRT
<213> Rattus sp.

<400> 33
Ala Ala Tyr His Leu Val Ser Gln
1 5
<210> 34
<211> 8

<212> PRT

<213> Rattus sp.

<400> 34

Met Asp Ala Phe Leu Glu Ser Ser
1 5

<210> 35

<211> 8

<212> PRT

<213> Rattus sp.

<400> 35

Glu Pro Gln Ala Leu Ala Met Ser
1 5

<210> 36

<211> 8

<212> PRT

<213> Rattus sp.

<400> 36

Gln Ala Leu Ala Met Ser Ala Ile
1 5

<210> 37

<211> 8

<212> PRT

<213> Gallus domesticus

<400> 37

Pro Ser Tyr Phe Leu Asn Ala Gly
1 5

<210> 38

<211> 8

<212> PRT

<213> Homo sapiens

<400> 38

Tyr Glu Ala Gly Leu Gly Val Val
1 5

<210> 39

<211> 8

<212> PRT

<213> Homo sapiens

<400> 39

Ala Gly Leu Gly Val Val Glu Arg
1 5

<210> 40

<211> 8

<212> PRT

<213> Homo sapiens

<400> 40

Ala Gly Leu Gly Ile Ser Ser Thr
1 5

<210> 41

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 41

Gly Ala Met Phe Leu Glu Ala Ile
1 5

<210> 42

<211> 8

<212> PRT

<213> Homo sapiens

<400> 42

Ile Pro Glu Asn Phe Phe Gly Val
1 5

<210> 43

<211> 8

<212> PRT

<213> Homo sapiens

<400> 43

Thr Glu Gly Glu Ala Arg Gly Ser
1 5

<210> 44

<211> 8

<212> PRT

<213> Homo sapiens

<400> 44
Arg Ala Ile His Ile Gln Ala Glu
1 5

<210> 45

<211> 8

<212> PRT

<213> Homo sapiens

<400> 45

Leu Arg Ala Tyr Leu Leu Pro Ala
1 5

<210> 46

<211> 8

<212> PRT

<213> Cavia porcellus

<220>

<221> SITE

<222> (3)..(3)

<223> Xaa=Hyp

<400> 46

Gly Ala Xaa Gly Leu Glx Gly His
1 5

<210> 47

<211> 8

<212> PRT

<213> Rattus sp.

<400> 47

Gly Pro Gln Gly Val Arg Gly Glu
1 5

<210> 48

<211> 8

<212> PRT

<213> Rattus sp.

<400> 48

Gly Pro Ala Gly Val Gln Gly Pro
1 5

<210> 49

<211> 8
<212> PRT
<213> Rattus sp.

<220>
<221> SITE
<222> (6)..(6)
<223> Xaa=Hyp

<400> 49
Gly Pro Ser Gly Leu Xaa Gly Pro
1 5
<210> 50
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<212> PRT
<213> Rattus sp.

<400> 50
Gly Pro Ala Gly Glu Arg Gly Ser
1 5
<210> 51
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<213> Rattus sp.

<400> 51
Gly Ala Lys Gly Leu Thr Gly Ser
1 5
<210> 52
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<400> 52
Gly Pro Ala Gly Gln Asp Gly Pro
1 5
<210> 53
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<400> 53
Gly Pro Ala Gly Phe Ala Gly Pro
1 5

<210> 54

<211> 8

<212> PRT

<213> Rattus sp.

<400> 54
Gly Pro Ile Gly Asn Val Gly Ala
1 5

<210> 55

<211> 8

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<213> Rattus sp.

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<222> (3)..(3)

<223> Xaa=Hyl

<400> 55

Gly Pro Xaa Gly Ser Arg Gly Ala
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<210> 56

<211> 8

<212> PRT

<213> Bos taurus

<400> 56

Gly Pro Gln Gly Ile Ala Gly Gln
1 5

<210> 57

<211> 8

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<213> Bos taurus

<400> 57

Gly Pro Gln Gly Leu Leu Gly Ala
1 5

<210> 58

<211> 8

<212> PRT

<213> Homo sapiens

<400> 58

Ile Pro Glu Asn Phe Phe Gly Val
1 5

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<211> 8

<212> PRT

<213> Homo sapiens

<400> 59

Pro Pro Gly Ala Tyr His Gly Ala
1 5

<210> 60

<211> 8

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<213> Homo sapiens

<400> 60

Arg Ala Ile His Ile Gln Ala Glu
1 5

<210> 61

<211> 8

<212> PRT

<213> Homo sapiens

<400> 61

Gly Pro His Leu Leu Val Glu Ala
1 5

<210> 62

<211> 8

<212> PRT

<213> Homo sapiens

<400> 62

Leu Arg Ala Tyr Leu Leu Pro Ala
1 5

<210> 63

<211> 8

<212> PRT

<213> Homo sapiens

<400> 63
Gly Pro Glu Gly Leu Arg Val Gly
1 5

<210> 64

<211> 8

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<213> Homo sapiens

<400> 64

Arg Val Gly Phe Tyr Glu Ser Asp
1 5

<210> 65

<211> 8

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<213> Homo sapiens

<400> 65

Leu Leu Ser Ala Leu Val Glu Thr
1 5

<210> 66

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 66

Glu Ala Ile Pro Met Ser Ile Pro
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<210> 67

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 67

Ile Ala Gly Arg Ser Leu Asn Pro
1 5

<210> 68

<211> 8

<212> PRT

<213> Gallus domesticus

<400> 68

Leu Asn Ala Gly Phe Thr Ala Ser
1 5

<210> 69

<211> 8

<212> PRT

<213> Homo sapiens

<400> 69

Ile Pro Glu Asn Phe Phe Gly Val
1 5

<210> 70

<211> 8

<212> PRT

<213> Unknown

<220>

<223> Sequence source uncertain

<400> 70

Lys Pro Gln Gln Phe Phe Gly Leu
1 5

<210> 71

<211> 8

<212> PRT

<213> Homo sapiens

<400> 71

Asp Val Ala Gln Phe Val Leu Thr
1 5

<210> 72

<211> 8

<212> PRT

<213> Homo sapiens

<400> 72

Asp Thr Leu Glu Val Met Arg Lys
1 5

<210> 73

<211> 8

<212> PRT

<213> Homo sapiens

<400> 73

Asp Val Gly His Phe Arg Thr Phe
1 5

<210> 74

<211> 8

<212> PRT

<213> Homo sapiens

<400> 74

Asp Ser Gly Gly Phe Met Leu Thr
1 5

<210> 75

<211> 8

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<213> Homo sapiens

<400> 75

Arg Val Ala Glu Met Arg Gly Glu
1 5

<210> 76

<211> 8

<212> PRT

<213> Homo sapiens

<400> 76

Asp Leu Gly Arg Phe Gln Thr Phe
1 5

<210> 77

<211> 8

<212> PRT

<213> Homo sapiens

<400> 77

Pro Phe Ser Pro Leu Val Ala Thr
1 5

<210> 78

<211> 8

<212> PRT

<213> Homo sapiens

<400> 78
Leu Arg Ala Tyr Leu Leu Pro Ala
1 5

<210> 79

<211> 8

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<220>

<223> Sequence source uncertain
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Ala Pro Gly Asn Ala Ser Glu Ser
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<210> 80

<211> 8

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<220>

<223> Sequence source uncertain
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Phe Ser Ser Glu Ser Lys Arg Glu
1 5

<210> 81

<211> 8

<212> PRT

<213> Bos taurus

<400> 81

Ala Gly Gly Ala Gln Met Gly Val
1 5

<210> 82

<211> 8

<212> PRT

<213> Bos taurus

<400> 82

Gln Met Gly Val Met Gln Gly Pro
1 5

<210> 83

<211> 8

<212> PRT

<213> Bos taurus

<400> 83

Met Ala Ala Ser Leu Lys Arg Pro
1 5

<210> 84

<211> 8

<212> PRT

<213> Bos taurus

<400> 84

Met Ala Ala Ser Ala Lys Arg Glu
1 5

<210> 85

<211> 8

<212> PRT

<213> Bos taurus

<400> 85

Met Ala Ala Ser Leu Arg Lys Pro
1 5

<210> 86

<211> 8

<212> PRT

<213> Bos taurus

<400> 86

Gln Ala Gln Ala Ile Leu Gln Gln
1 5

<210> 87

<211> 8

<212> PRT

<213> Homo sapiens

<400> 87

Arg Ala Ile His Ile Gln Ala Glu
1 5

<210> 88

<211> 8

<212> PRT

<213> Bos taurus

<400> 88
Leu Val Glu Ala Leu Tyr Leu Val
1 5

<210> 89

<211> 8

<212> PRT

<213> Bos taurus

<400> 89

Glu Ala Leu Tyr Leu Val Cys Gly
1 5

<210> 90

<211> 8

<212> PRT

<213> Homo sapiens

<400> 90

Ile Pro Glu Asn Phe Phe Gly Val
1 5

<210> 91

<211> 8

<212> PRT

<213> Homo sapiens

<400> 91

Gly Pro His Leu Leu Val Glu Ala
1 5

<210> 92

<211> 8

<212> PRT

<213> Homo sapiens

<400> 92

Pro Pro Glu Glu Leu Lys Phe Gln
1 5

<210> 93

<211> 8

<212> PRT

<213> Homo sapiens

<400> 93

Gly Pro Pro Gly Val Val Gly Pro
1 5

<210> 94

<211> 8

<212> PRT

<213> Homo sapiens

<400> 94

Gly Pro Pro Gly Leu Arg Gly Glu
1 5

<210> 95

<211> 8

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<213> Homo sapiens

<400> 95

Gly Pro Glu Gly Val Val Gly Pro
1 5

<210> 96

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<400> 96

Ile Pro Glu Asn Phe Phe Gly Val
1 5

<210> 97

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<400> 97

Pro Pro Gly Ala Tyr His Gly Ala
1 5

<210> 98

<211> 8

<212> PRT

<213> Homo sapiens

<400> 98

Arg Ala Ile His Ile Gln Ala Glu
1 5

<210> 99
<211> 8
<212> PRT
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<400> 99
Arg Ala Ile His Ile Gln Ala Glu
1 5

<210> 100
<211> 8
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<213> Homo sapiens

<400> 100
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1 5